ELSEVIER

Pharmacology, Biochemistry and Behavior 67 (2000) 833–840

PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR

CONTENTS
VOLUME 67, 2000

Articles

The effects of neonatal ethanol and/or cocaine exposure on isolation-induced ultrasonic vocalizations.
BARRON, S. T., T. M. SEGAR, J. S. YAHR, B. J. BASEHEART and J. A. WILLFORD 1

7-OH-DPAT, unlike quinpirole, does not prime a yawning response in rats.
OSWIECIMSKA, J., R. BRUS, R. SZKILNIK, P. NOWAK and R. M. KOSTRZEWA 11

DBA/2J mice develop stronger lithium chloride-induced conditioned taste and place aversions than C57BL/6J mice.
RISINGER, F. O. and C. L. CUNNINGHAM 17

Plasma concentrations of beta-endorphin in smokers who consume different numbers of cigarettes per day.
DEL ARBOL, J. L., J. R. MUÑOZ, L. OJEDA, A. L. CASCALES, J. R. IRLES, M. T. MIRANDA, M. E. R. REQUENA and J. C. AGUIRRE 25

Neurosteroids and reward: allopregnanolone produces a conditioned place aversion in rats.
BEAUCHAMP, M. H., B. K. ORMEROD, K. JHAMANDAS, R. J. BOEGMAN and R. J. BENINGER ... 29

Behavioral and neural toxicity of the artemisinin antimalarial, arteether, but not artesunate and artelinate, in rats.
GENOVESE, R. F., D. B. NEWMAN and T. G. BREWER 37

The influence of buspirone, and its metabolite 1-PP, on the activity of paroxetine in the mouse light/dark paradigm and four plates test.
HASCOËT, M., M. BOURIN and B. A. N. DHONNCHADHA 45

A9 and A10 dopamine nuclei as a site of action for effects of 8-OH-DPAT on locomotion in the rat.
HILLEGAART, V., O. MAGNUSSON and S. AHLENIUS 55

The role of opioid receptors in hypoxic preconditioning against seizures in brain.
RUBAJ, A., K. GUSTAW, W. ZGODZIŃSKI, Z. KLEINROK and M. SIEKLUCKA-DZIUBA 65

Dissociating nicotine and nonnicotine components of cigarette smoking.
ROSE, J. E., F. M. BEHM, E. C. WESTMAN and M. JOHNSON 71

Non-opioid antinociceptive effects of supraspinal histogranin and related peptides: possible involvement of central dopamine D_2 receptor.
RUAN, H., J. A. PRASAD and S. LEMAIRE 83

Distinct inhibition of acute cocaine-stimulated motor activity following microinjection of a group III metabotropic glutamate receptor agonist into the dorsal striatum of rats.
MAO, L. and J. Q. WANG 93

Dissociable effects of the 5-HT_2 antagonist mianserin on associative learning and performance in the rabbit.
ROMANO, A. G., H. HOOD and J. A. HARVEY 103

0091-3057/00/$–see front matter © 2001 Elsevier Science Inc. All rights reserved.

continued

Perinatal exposure to lead attenuates the conditioned reinforcing properties of cocaine in male rats.
MILLER, D. K., J. R. NATION and G. R. BRATTON 111

Effects of ropinirole on motor behavior in MPTP-treated common marmosets.
FUKUZAKI, K., T. KAMENOSONO, K. KITAZUMI and R. NAGATA 121

Melatonin treatment attenuates symptoms of acute nicotine withdrawal in humans.
ZHDANOVA, I. V. and V. R. PIOTROVSKAYA 131

Antidepressant-like effect of the neurosteroid 3α-hydroxy-5α-pregnan-20-one in mice forced swim test.
KHISTI, R. T., C. T. CHOPDE and S. P. JAIN 137

Effects of drugs acting as histamine releasers or histamine receptor blockers on an experimental anxiety model in mice.
YUZURIHARA, M., Y. IKARASHI, A. ISHIGE, H. SASAKI, H. KURIBARA and Y. MARUYAMA 145

Comparison of effect of ethanol and anticonvulsants on cardiovascular drug-modified cocaine toxicity.
HAYASE, T., Y. YAMAMOTO, K. YAMAMOTO and Y. FUKUI 151

Psychomotor-activation effects mediated by dopamine D_2 and D_3 receptors in the nucleus accumbens.
CANALES, J. J. and S. D. IVERSEN 161

Benzodiazepine receptor inverse agonist-induced kindling of rats alters learning and glutamate binding.
RÖSSLER, A.-S., H. SCHRÖDER, R. H. DODD, G. CHAPOUTHIER and G. GRECKSCH 169

Temporal analysis of the rat's behavior in the plus-maze: effect of midazolam.
ROSA, V. P., N. VANDRESEN, A. V. CALIXTO, D. F. KOVALESKI and M. S. FARIA 177

Gender and gonadal hormone effects in the olfactory bulbectomy animal model of depression.
STOCK, H. S., K. FORD and M. A. WILSON 183

Testosterone is required for corticosteroid-binding globulin upregulation by morphine to be fully manifested.
NOCK, B., M. WICH, T. J. CICERO and L. H. O'CONNOR 193

Conflict behavior and the effects of 8-OHDPAT treatment in rats selectively bred for differential 5-HT_{1A}-induced hypothermia.
COMMISSARIS, R. L., P. A. ARDAYFIO, D. A. McQUEEN, G. A. GILCHRIST III and D. H. OVERSTREET 199

CONTENTS VOLUME 67 NUMBER 2 2000

Articles

Antipunishment effects of diazepam on two levels of suppression of schedule-induced drinking in rats.
FLORES, P. and R. PELLÓN 207

Muscarinic mediation of the urethro genital reflex in spinal cord-transected rats.
GIL, L., L. E. GÓMEZ, I. DURÁN and R. CUEVA-ROLÓN 215

continued

continued

Does the increase in locomotion induced by ethanol indicate its stimulant or anxiolytic properties?
BOERNGEN-LACERDA, R. and M. L. O. SOUZA-FORMIGONI 225

The brain response to 2-deoxy glucose is blocked by a glial drug.
YOUNG, J. K., J. H. BAKER and M. I. MONTES 233

NMDA antagonists block expression of sensitization of amphetamine- and apomorphine-induced stereotypy.
BATTISTI, J. J., C. B. SHREFFLER, N. J. URETSKY and L. J. WALLACE 241

Diabetes attenuates the response of the lumbospinal noradrenergic system or idazoxan.
BITAR, M. S. and C. W. T. PILCHER 247

Behavioral effects of AMI-193, a 5-HT_{2A}- and dopamine D_2-receptor antagonist, in the squirrel monkey.
CZOTY, P. W. and L. L. HOWELL 257

Effects of SR141716A, a central cannabinoid receptor antagonist, on food-maintained responding.
FREEDLAND, C. S., J. S. POSTON and L. J. PORRINO 265

Anabolic androgenic steroids affects alcohol intake, defensive behaviors and brain opioid peptides in the rat.
JOHANSSON, P., A.-S. LINDQVIST, F. NYBERG and C. FAHLKE 271

Differential effects of adult and perinatal lead exposure on morphine-induced locomotor activity in rats.
MILLER, D. K., J. R. NATION, T. E. JOST, J. B. SCHELL and G. R. BRATTON 281

Effects of serotonin$_{1/2}$ receptor agonists on dark-phase food and water intake in rats.
SCHREIBER, R., K. SELBACH, M. ASMUSSEN, D. HESSE and J. DE VRY 291

Clozapine does not induce a motor impairment in operant responding for heat reinforcement.
HUBERMAN, A., V. F. TUREK and H. J. CARLISLE 307

Effects of ethanol on startle responding in alcohol-preferring and -non-preferring rats.
JONES, A. E., W. J. McBRIDE, J. M. MURPHY, L. LUMENG, T.-K. LI, A. SHEKHAR and D. L. McKINZIE 313

Prenatal nicotine exposure is associated with an increase in [^{125}I]epibatidine binding in discrete cortical regions in rats.
TIZABI, Y. and D. C. PERRY 319

Behavioral effects in the elevated plus maze of an NMDA antagonist injected into the dorsal hippocampus: influence of restraint stress.
PADOVAN, C. M., E. A. DEL BEL and F. S. GUIMARÃES 325

Olfactory bulbectomy increases met-enkephalin- and neuropeptide-Y-like immunoreactivity in rat limbic structures.
PRIMEAUX, S. D. P. and P. V. HOLMES 331

continued

continued

The serotonin 5-HT$_{2A}$ receptor subtype does not mediate apomorphine-induced aggressive behaviour in male Wistar rats.
SKREBUHHOVA-MALMROS, T., K. PRUUS, R. RUDISSAAR, L. ALLIKMETS and V. MATTO 339

The effects of neurosteroids on picrotoxin-, bicuculline- and NMDA-induced seizures, and a hypnotic effect of ethanol.
CZŁONKOWSKA, A. I., P. KRZĄŚCIK, H. SIENKIEWICZ-JAROSZ, M. SIEMIATKOWSKI, J. SZYNDLER, A. BIDZIŃSKI and A. PLAŹNIK 345

The mitochondrial benzodiazepine receptor and avoidance learning in the day-old chick.
FREEMAN, F. M. and I. G. YOUNG 355

Effects of the serotonin 5-HT$_2$ antagonist, ritanserin, and the serotonin 5-HT$_{1A}$ antagoninst, WAY 100635, on cocaine-seeking in rats.
SCHENK, S. 363

Additive satiety-delaying effects of capsaicin-induced visceral deafferentation and NMDA receptor blockade suggest separate pathways.
BERTHOUD, H.-R., L. M. PATTERSON, S. MORALES and H. ZHENG 371

Comparison of drug effects on the performance of two timing tasks in rats.
POPKE, E. J., A. J. MAYORGA, C. M. FOGLE and MERLE G. PAULE 377

Haloperidol challenge during copulation prevents subsequent increase in male sexual motivation.
LÓPEZ, H. H. and A. ETTENBERG 387

Errata 395

Articles

Noradrenergic α-2 receptor agonists reverse working memory deficits induced by the anxiogenic drug, FG7142, in rats.
BIRNBAUM, S. G., D. M. PODELL and A. F. T. ARNSTEN 397

Dextromethorphan alters methamphetamine self-administration in the rat.
JUN, J. H. and C. W. SCHINDLER 405

Antiepileptogenic properties of phenobarbital: behavior and neurochemical analysis.
BRUM, L. F. S. and E. ELISABETSKY 411

Ovanian hormone replacement affects cocaine-induced behaviors in ovariectomized female rats.
QUIÑONES-JENAB, V., L. I. PERROTTI, J. MC MONAGLE, A. HO and M. J. KREEK 417

Chronic sustained stress increases levels of anterior pituitary prolactin mRNA.
DAVE, J. R., S. M. ANDERSON, G. A. SAVIOLAKIS, E. H. MOUGEY, R. A. BAUMAN and G. J. KANT 423

Effects of social defeat and of diazepam on behavior in a resident-intruder test in male DBA/2 mice.
LUMLEY, L. A., R. F. CHARLES, R. C. CHARLES, M. A. HEBERT, D. MORTON and J. L. MEYERHOFF 433

continued

continued

Long-lasting delayed hyperalgesia after subchronic swim stress.
QUINTERO, L., M. MORENO, C. AVILA, J. ARCAYA, W. MAIXNER and H. SUAREZ-ROCA 449

Effect of epipregnanolone and pregnenolone sulfate on chronic tolerance to ethanol.
BARBOSA, A. D. E. and G. S. MORATO 459

Behaviour of pigs given corticotrophin-releasing hormone in combination with flumazenil or diazepam.
PARROTT, R. F. and S. V. VELLUCCI 465

Nicotine improves Morris water task performance in rats given medial frontal cortex lesions.
BROWN, R. W., C. L. R. GONZALES and B. KOLB 473

A pharmacokinetic crossover study to compare the absorption characteristics of three transdermal nicotine patches.
FANT, R. V., J. E. HENNINGFIELD, S. SHIFFMAN, K. R. STRAHS and D. P. REITBERG 479

Effects of benzodiazepine receptor ligands and ethanol in rats trained to discriminate pregnanolone.
VANOVER, K. E. 483

Anxiolytic-like effect of saiboku-to, an oriental herbal medicine, on histaminergics-induced anxiety in mice.
YUZURIHARA, M., Y. IKARASHI, A. ISHIGE, H. SASAKI and Y. MARUYAMA 489

Biperiden hydrochlorate ameliorates dystonia of rats produced by microinjection of sigma ligands into the red nucleus.
YOSHIDA, K., H. TAKAHASHI, K. SATO, H. HIGUCHI and T. SHIMIZU 497

Estrogen differentially alters NMDA- and kainate-induced seizures in prenatally morphine- and saline-exposed adult female rats.
ŠLAMBEROVÁ, R. and I. VATHY 501

β-1 adrenoceptor antagonists potentiate the anticonvulsive effect of swim stress in mice.
PERIČIĆ, D., M. JAZVINŠĆAK, D. ŠVOB and K. MIRKOVIĆ 507

Effects of prenatal AZT+3TC treatment on open field behavior and responsiveness to scopolamine in adult mice.
CALAMANDREI, G., A. VENEROSI, A. VALANZANO and E. ALLEVA 511

Differential effect of low doses of intracerebroventricular corticotropin-releasing factor in forced swimming test.
GARCÍA-LECUMBERRI, C. and E. AMBROSIO 519

Effects of β-phenylethylamine on the hypothalamo–pituitary–adrenal axis in the male rat.
KOSA, E., A. MARCILHAC-FLOURIOT, M.-P. FACHE and P. SIAUD 527

Role of D_1 and D_2 dopamine receptors in the acquisition and expression of flavor-preference conditioning in sham-feeding rats.
YU, W.-Z., R. M. SILVA, A. SCLAFANI, A. R. DELAMATER and R. J. BODNAR 537

Naltrexone fails to block the acquisition or expression of a flavor preference conditioned by intragastric carbohydrate infusions.
AZZARA, A. V., R. J. BODNAR, A. R. DELAMATER and A. SCLAFANI 545

Modulation of the effects of cocaine by 5-HT1B receptors: a comparison of knockouts and antagonists.
CASTANON, N., K. SCEARCE-LEVIE, J. J. LUCAS, B. ROCHA and R. HEN 559

continued

continued

Cannabinoid and dopamine interaction in rodent brain: effects on locomotor activity.
MESCHLER, J. P., T. J. CONLEY and A. C. HOWLETT 567

Ketamine blocks a taste recognition memory in fetal rats.
MICKLEY, G. A., D. R. REMMERS-ROEBER, C. CROUSE and R. PELUSO 575

Sensitivity and tolerance to the motor impairing effects of meoderate doses of ethanol.
BELL, R. L., D. L. MCKINZIE, J. M. MURPHY and W. J. MCBRIDE 583

Estrous cycle and sex differences in performance on anxiety tasks coincide with increases in hippocampal progesterone and 3α, 5α-THP.
FRYE, C. A., S. M. PETRALIA and M. E. RHODES 587

Comparative assessment of the anxiolytic-like activities of honokiol and derivatives.
KURIBARA, H., E. KISHI, M. KIMURA, S. T. WEINTRAUB and Y. MARUYAMA 597

2-NAP, a peripheral CCK-A receptor antagonist, modulates the development of a preference for the mother by the newborn lamb.
GOURSAUD, A.-P. and R. NOWAK 603

Disinhibitory behavior and $GABA_A$ receptor function in serotonin-depleted adult male rats are reduced by gonadectomy.
SVENSSON, A. I., A. BERNTSSON, J. A. ENGEL and B. SÖDERPALM 613

Effects of drug discrimination history on anti-punishment properties of chlordiazepoxide in rats.
PATTIJ, T., T. H. HIJZEN, J. GOMMANS, R. A. A. MAES and B. OLIVIER 621

Intracerebroventricular injection of antisense oligos to nNOS decreases rat ethanol intake.
NAASSILA, M., F. J. BEAUGÉ, N. SÉBIRE and M. DAOUST 629

Intra-accumbens infusion of D_3 receptor agonists reduces spontaneous and dopamine-induced locomotion.
OUAGAZZAL, A.-M. and I. CREESE 637

Effects of MK801 and neuroleptics on prepulse inhibition: re-examination in two strains of rats.
BAST, T., W. ZHANG, J. FELDON and I. M. WHITE 647

Pharmacological identification of SM-21, the novel σ_2 antagonist.
GHELARDINI, C., N. GALEOTTI and A. BARTOLINI 659

Neuroprotective effects of currently used antidotes in soman-poisoned rats.
KASSA, J. and M. KOUPILOVÁ 663

SPECIAL ISSUE: GENETIC MODIFICATIONS: TOOLS FOR STUDYING PHARMACOLOGY AND BEHAVIOR

Introduction

BROWMAN, K. E. and J. C. CRABBE 669

continued

continued

Articles

Congenic strains developed for alcohol- and drug-related phenotypes.
BENNETT, B. 671

Neurobiological responses to ethanol in mutant mice lacking neuropeptide Y or the Y5 receptor.
THIELE, T. E., G. I. MIURA, D. J. MARSH, I. L. BERNSTEIN and R. D. PALMITER 683

Ethanol-conditioned place preference is reduced in dopamine D2 receptor-deficient mice.
CUNNINGHAM, C. L., M. A. HOWARD, S. J. GILL, M. RUBINSTEIN, M. J. LOW and D. K. GRANDY 693

Selective breeding of 5-HT$_{1A}$ receptor-mediated responses: application to emotion and receptor action.
KNAPP, D. J., L. J. SIM-SELLEY, G. R. BREESE and D. H. OVERSTREET 701

Acute neuroactive steroid withdrawal in withdrawal seizure-prone and withdrawal seizure-resistant mice.
REILLY, M. T., J. C. CRABBE, N. R. RUSTAY and D. A. FINN 709

Altered behavior and alcohol tolerance in transgenic mice lacking MAO A: a comparison with effects of MAO A inhibitor clorgyline.
POPOVA, N. K., G. B. VISHNIVETSKAYA, E. A. IVANOVA, J. A. SKRINSKAYA and I. SEIF 719

The effects of prenatal cocaine exposure and genotype on the ultrasonic calls of infant mice.
HAHN, M. E., R. H. BENNO, N. SCHANZ and E. PHADIA 729

Differences in anxiety-related behavior and response to diazepam in BALB/cByJ and C57BL/6J strains of mice.
LEPICARD, E. M., C. JOUBERT, I. HAGNEAU, F. PEREZ-DIAZ and G. CHAPOUTHIER 739

Genetics of anesthetic response: autosomal mutations that render *Drosophila* resistant to halothane.
MADHAVAN, M. C., R. A. KUMAR and K. S. KRISHNAN 749

Naltrexone and alcohol drinking in mice lacking β-endorphin by site-directed mutagenesis.
GRAHAME, N. J., A. K. MOSEMILLER, M. J. LOW and J. C. FROEHLICH 759

Effect of genetic cross on the detection of quantitative trait loci and a novel approach to mapping QTLs.
HITZEMANN, R., K. DEMAREST, J. KOYNER, L. CIPP, N. PATEL, E. RASMUSSEN and J. MCCAUGHRAN JR. 767

Drinks like a fish: zebra fish (*Danio rerio*) as a behavior genetic model to study alcohol effects.
GERLAI, R., M. LAHAV, S. GUO and A. ROSENTHAL 773

Effects of repeated morphine on cerebral dopamine release and metabolism in AA and ANA rats.
MIKKOLA, J. A. V., A. HONKANEN, T. P. PIEPPONEN, K. KIIANMAA and L. AHTEE 783

Enhanced locomotor stimulation by NMDA receptor antagonists in alcohol-sensitive ANT rats.
VEKOVISCHEVA, O. YU., A. HAAPALINNA, R. NÄKKI, M. SARVIHARJU, A. HONKANEN, J. HEIKKILÄ and E. R. KORPI 793

continued

continued

Genetic, sex, and early environmental effects on the voluntary alcohol intake in Wistar rats.
SLUYTER, F., M. HOF, B. A. ELLENBROEK, S. B. DEGEN and A. R. COOLS 801

Lewis/Fischer rat strain differences in endocrine and behavioural responses to environmental challenge.
STÖHR, T., T. SZURAN, H. WELZL, V. PLISKA, J. FELDON and C. R. PRYCE 809

Sensitivity and tolerance to ethanol in mouse lines selected for ethanol-induced hypothermia.
BROWMAN, K. E., N. R. RUSTAY, N. NIKOLAIDIS, L. CRAWSHAW and J. C. CRABBE 821

Index to Volume 67 831